

FIG. 2
MODULE STATE DATABASE

		ENTRY 1				ENTRY 2				ENTRY 3	
MODULE	MODULE NO.	GSM 26				CSM 27				GRM 28	
	MODULE TYPE	GROUP SWITCH				CHANNEL SWITCH				GROUP REG.	
	WVLN CONV.	UNAVAILABLE				AVAILABLE				UNAVAILABLE	
PATH NUMBER		P1	P6	—	—	P2	P3	—	—	P4	P5
INPUT PORT	PORT NO.	IP1	IP2	IP3	IP4	IP5	IP6	IP7	IP8	IP9	IP10
	PORT GRP NO.	IPG1		IPG2		—	—	—	—	IPG3	
	PORT COST	1	1	1	1	2	2	2	2	1	1
	AVAILABLE WAVELENGTH	ARB.	ARB.	—	—	λ 2	λ 1	—	—	λ 2	λ 4
	AVAILABLE DATA FORMAT	ARB.	ARB.	—	—	SONET	SONET	—	—	SONET	SONET
	MAX. DATA RATE (GBPS)	ARB.	ARB.	—	—	2.5	2.5	—	—	2.5	2.5
	INTERFACE NO.	IC20	IC22	—	—	IC21	IC24	—	—	IC26	IC27
OUTPUT PORT	PORT NO.	OP1	OP2	OP3/OP4		OP5	OP6	OP7/OP8		OP9	OP10
	PORT GRP NO.	OPG1		OPG2		—	—	—	—	OPG3	
	PORT COST	1	1	1	1	2	2	2	2	1	1
	AVAILABLE WAVELENGTH	DEP.	DEP.	—	—	ARB.	ARB.	—	—	λ 2	λ 4
	AVAILABLE DATA FORMAT	DEP.	DEP.	—	—	SONET	SONET	—	—	SONET	SONET
	MAX. DATA RATE (GBPS)	DEP.	DEP.	—	—	2.5	2.5	—	—	2.5	2.5
	INTERFACE NO.	OG24	OG22	—	—	OG23	OG20	—	—	OG26	OG27

LEGEND: ARB. = ARBITRARY

DEP. = DEPENDENT ON INPUT PORT WAVELENGTH, FORMAT AND RATE

FIG. 3

LINK STATE DATABASE

FIELD	ENTRY 1	ENTRY 2	ENTRY 3	ENTRY 4	-----	ENTRY m
TRANSMIT NODE ADDRESS	NODE-1	NODE-1	NODE-1	NODE-1		
RECEIVE NODE ADDRESS	NODE-2	NODE-2	NODE-3	NODE-3		
OUTGONG IF NUMBER	0G10	0G12	0G10	0G12		
INCOMING IF NUMBER	IC20	IC22	IC30	IC32		
LINK COST	1	1				
CHANNEL COST			4	4		
WAVELENGTH	λ_1	λ_3				
INCOMING WAVELENGTH			λ_1	λ_3		
OUTGOING WAVELENGTH				λ_1	λ_3	
DATA FORMAT	SONET	SONET	SONET	SONET		
MAXIMUM DATA RATE	10 Gbps	10 Gbps	10 Gbps	10 Gbps		
PATH NUMBER	P1	P6	P1	P6		

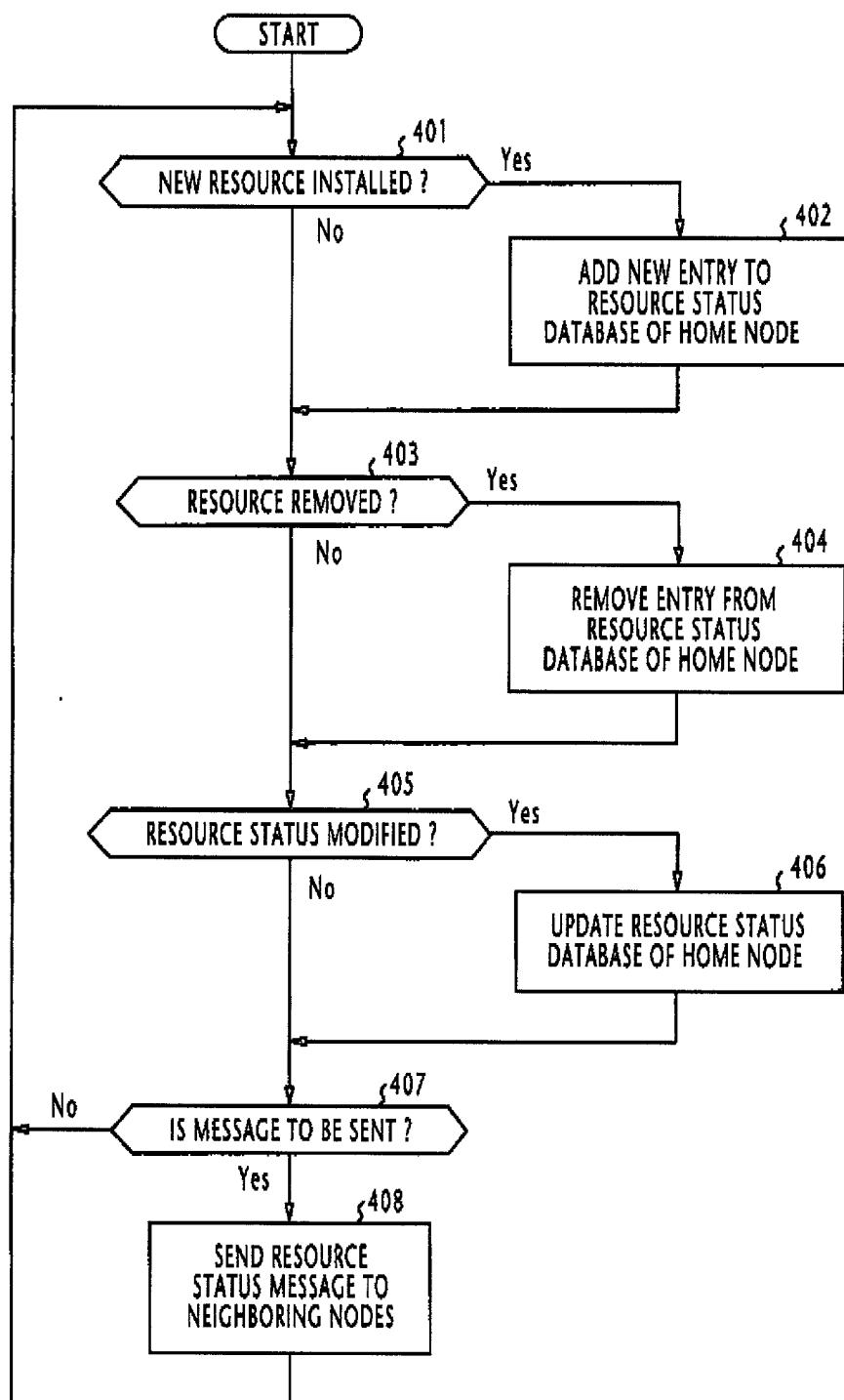
FIG. 4

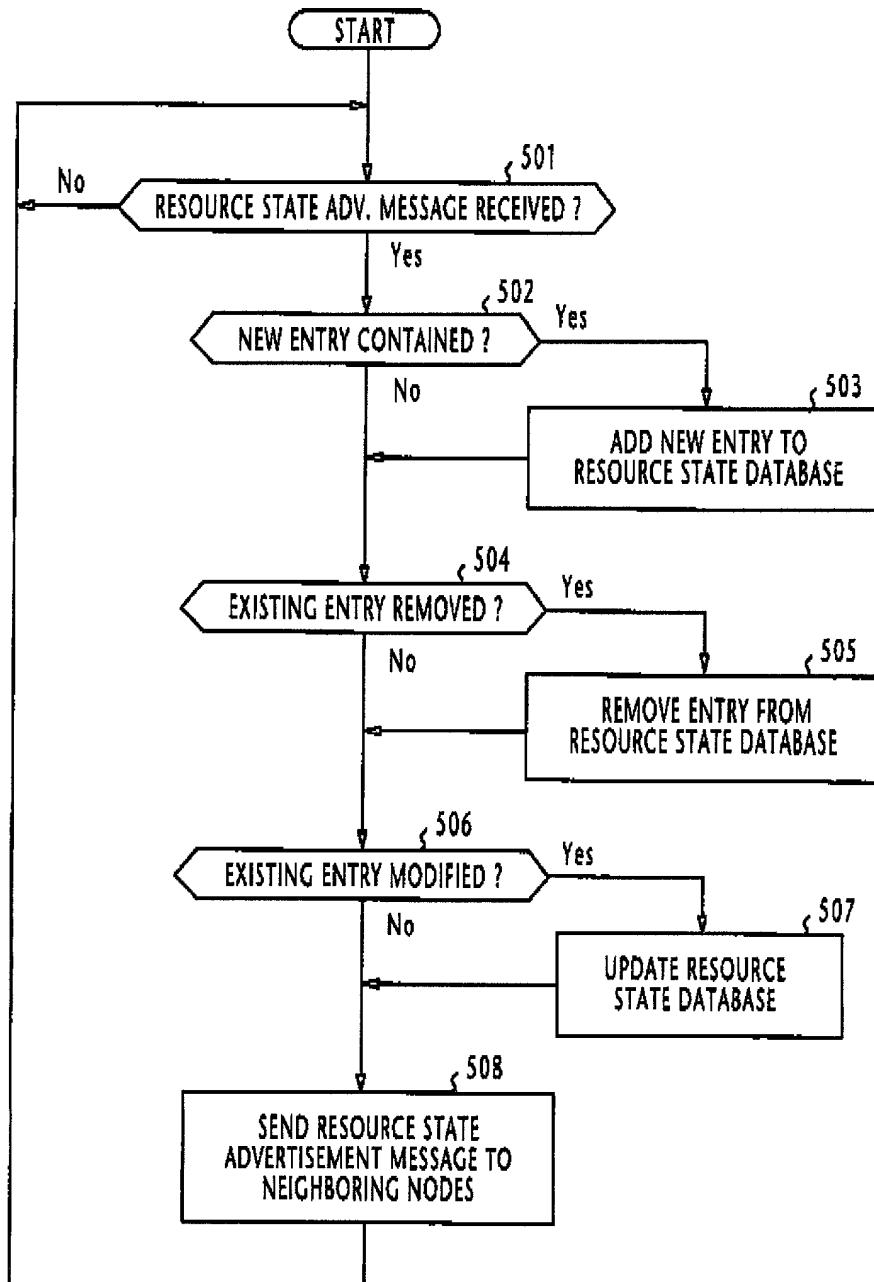
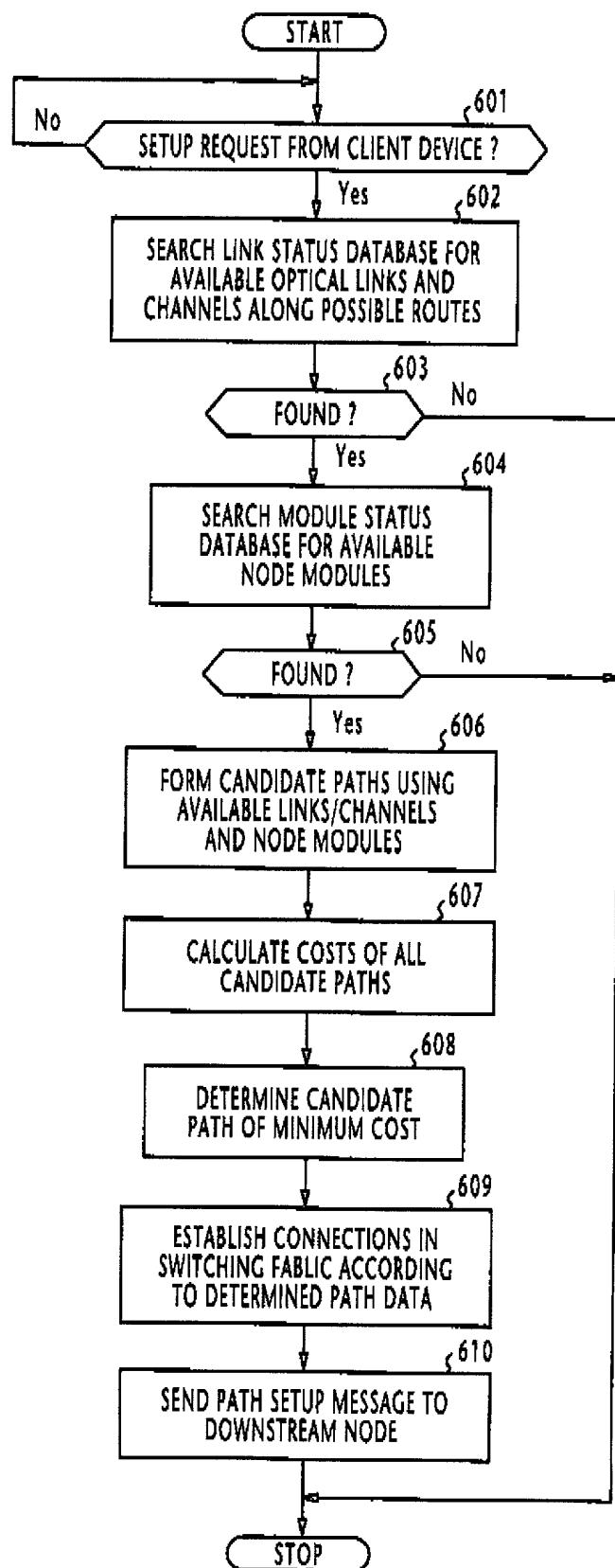
FIG. 5

FIG. 6

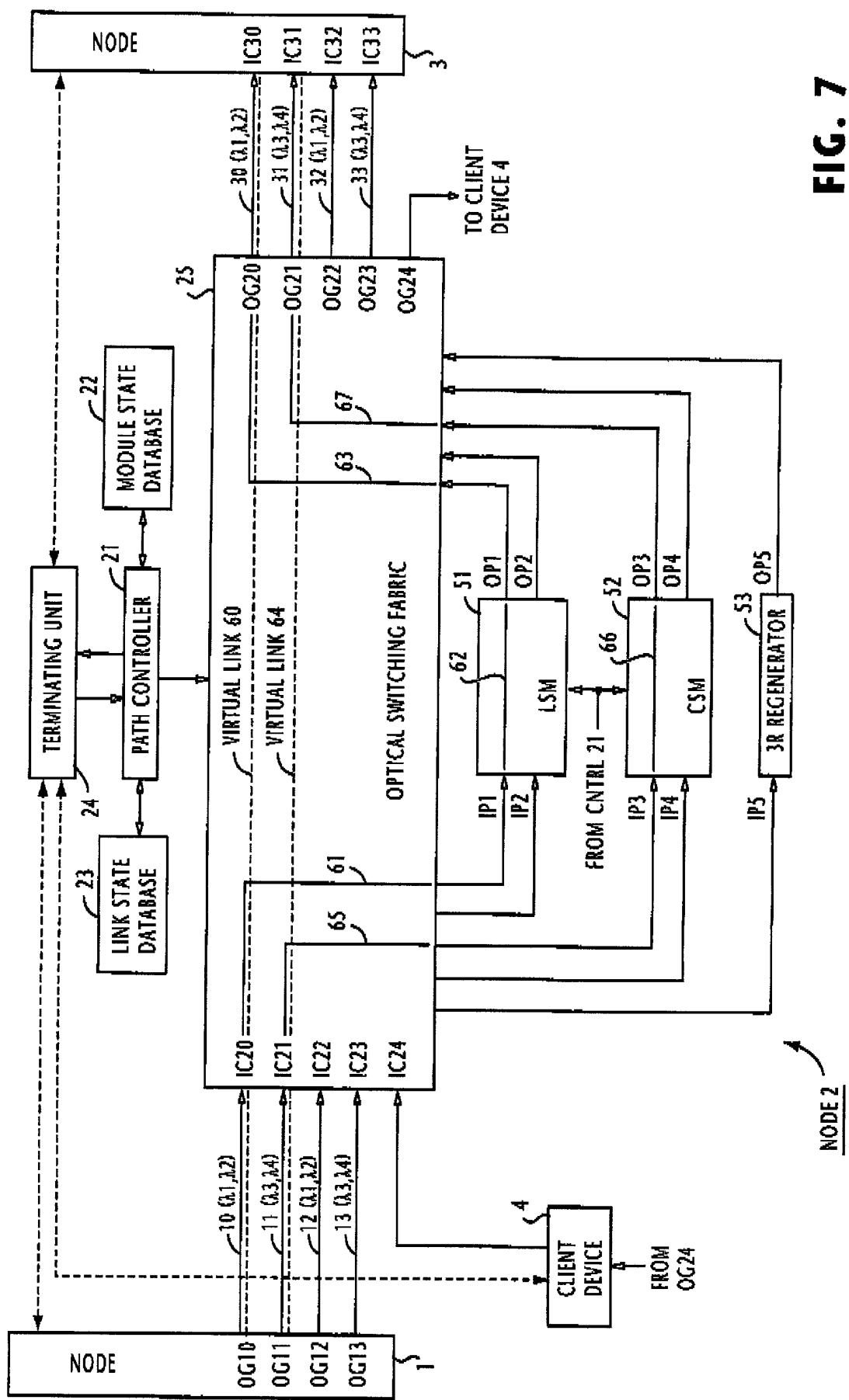
**FIG. 7**

FIG. 8

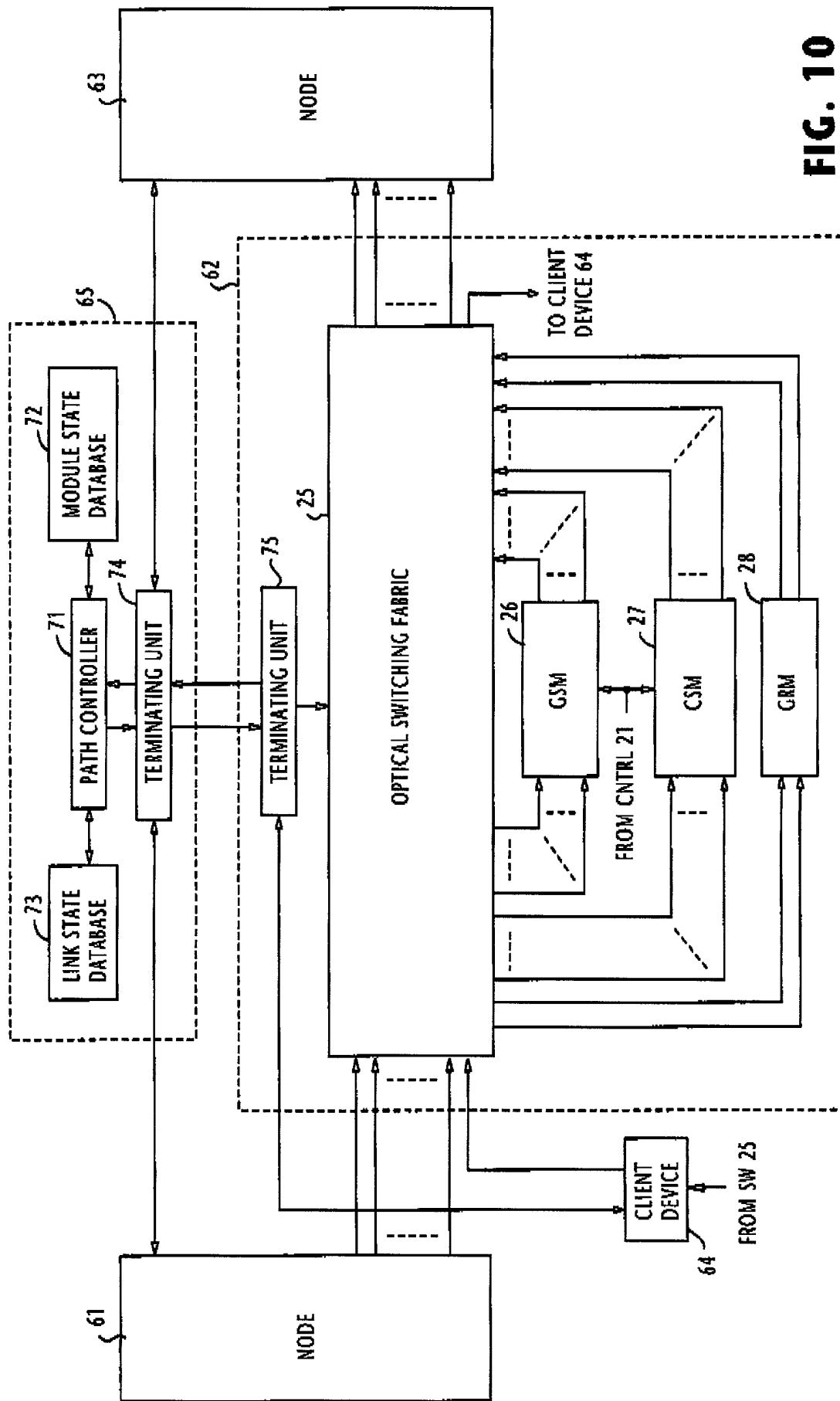
MODULE STATE DATABASE

		ENTRY 1		ENTRY 2		ENTRY 3	
MODULE	MODULE NO.	LSM 51		CSM 52		CRM 53	
	MODULE TYPE	GROUP SWITCH		CHANNEL SWITCH		CHANNEL REC.	
	WVLN CONV.	UNAVAILABLE		AVAILABLE		UNAVAILABLE	
PATH NUMBER		P1	P2	P3	P4	P5	P6
INPUT PORT	PORT NO.	IP1		IP3			
	PORT COST	1		2			
	AVAILABLE WAVELENGTH	λ_1, λ_2		λ_3			
	AVAILABLE DATA FORMAT	SONET		SONET			
	MAX. DATA RATE (GBPS)	2.5		2.5			
	INTERFACE NO.	IC20		IC21			
OUTPUT PORT	PORT NO.	OP1		OP3			
	PORT COST	1		2			
	AVAILABLE WAVELENGTH	λ_1, λ_2		λ_3			
	AVAILABLE DATA FORMAT	SONET		SONET			
	MAX. DATA RATE (GBPS)	2.5		2.5			
	INTERFACE NO.	OG20		OG21			

FIG. 9

LINK STATE DATABASE

FIELD	ENTRY 1	ENTRY 2	ENTRY 3	ENTRY 4	ENTRY 5	ENTRY 6	-----	ENTRY n
	-----	-----	-----	-----	-----	-----	-----	-----
OUTGOING NODE ADDRESS	NODE-1	NODE-2	NODE-1	NODE-2	NODE-1	NODE-1	-----	-----
INCOMING NODE ADDRESS	NODE-2	NODE-3	NODE-2	NODE-3	NODE-3	NODE-3	-----	-----
OUTGOING IF NUMBER	OG10	OG20	OG11	OG21	OG10	OG11	-----	-----
INCOMING IF NUMBER	IC20	IC30	IC21	IC31	IC30	IC31	-----	-----
CHANNEL NUMBER	#1	#1	#1	#1	#1	#1	-----	-----
CHANNEL COST	1	1	1	1	1	3	4	-----
WAVELENGTH	λ_1	λ_1	λ_3	λ_3	λ_1	λ_3	-----	-----
DATA FORMAT	SONET	SONET	SONET	SONET	SONET	SONET	-----	-----
MAXIMUM DATA RATE	2.5	2.5	2.5	2.5	2.5	2.5	-----	-----
PATH NUMBER	P1	P1	P5	P5	P1	P5	-----	-----
CHANNEL NUMBER	#2	#2	-----	-----	#2	-----	-----	-----
CHANNEL COST	1	1	-----	-----	3	-----	-----	-----
WAVELENGTH	λ_2	λ_2	-----	-----	λ_2	-----	-----	-----
DATA FORMAT	SONET	SONET	-----	-----	SONET	-----	-----	-----
MAXIMUM DATA RATE	2.5	2.5	-----	-----	2.5	-----	-----	-----
PATH NUMBER	P2	P2	-----	-----	P2	-----	-----	-----

**FIG. 10**